



DECADE OF CRIME

ANALYZING 10 YEARS OF DUTCH CRIMINAL TRENDS

DISCLAIMER

THIS TABLE CONTAINS FIGURES ON THE NUMBER OF REGISTERED CRIMES PER MONTH AND PER YEAR. THESE ARE BROKEN DOWN BY TYPE OF CRIME AND BY DISTRICT AND NEIGHBORHOOD. THE REGISTERED CRIMES ALSO INCLUDE ATTEMPTS. FOR SOME CRIMES (E.G. MURDER/MANSLAUGHTER) THIS RESULTS IN A MUCH HIGHER NUMBER THAN JUST THE NUMBER OF COMPLETED CRIMES. THE DATA PER DISTRICT AND NEIGHBORHOOD ARE PRESENTED FOR ALL YEARS ACCORDING TO THE CLASSIFICATION OF JANUARY 1, 2023.

SINCE JULY 2018, IT IS NO LONGER POSSIBLE TO RECORD MULTIPLE OFFENSES THAT ARE RELATED (CONCURRENCE) IN ONE REGISTRATION. AN EXAMPLE OF THIS IS A ROBBERY IN WHICH A FIREARM (WEAPON POSSESSION) IS USED. IF MULTIPLE OFFENSES APPEAR IN ONE REGISTRATION, ONLY THE MOST SERIOUS OFFENSE WAS COUNTED BEFORE JULY 2018. AS A RESULT OF THIS ADJUSTMENT, A NUMBER OF OFFENSES HAVE SHOWN AN INCREASE COMPARED TO 2018. THIS MAINLY CONCERNS TRESPASSING, SPECIAL LAWS INCLUDING MONEY LAUNDERING, ARMS TRAFFICKING INCLUDING POSSESSION OF WEAPONS, DRUG TRAFFICKING, DAMAGE TO PUBLIC ORDER AND OTHER SOCIAL INTEGRITY, INCLUDING INSULT. THE INCREASE WAS MAINLY VISIBLE IN THE LAST 6 MONTHS OF 2018. THIS ADJUSTMENT ONLY HAS A LIMITED EFFECT ON THE TOTAL NUMBER OF CRIMES. THIS CAUSES AN INCREASE OF APPROXIMATELY 1.0% FOR THE WHOLE OF 2018. SINCE APRIL 30, 2020, IT HAS BEEN POSSIBLE TO REPORT WHATSAPP FRAUD VIA THE INTERNET (ALSO KNOWN AS FRIEND-IN-NEED FRAUD). THIS WAS IMMEDIATELY USED EXTENSIVELY. IN THE MONTHS MAY TO DECEMBER 2020, APPROXIMATELY 20,000 REPORTS OF WHATSAPP FRAUD WERE MADE.

THE NUMBER OF REGISTERED FIREWORKS CRIMES IN 2023 IS NOT FINAL. MANY INCIDENTS RELATED TO THIS OFFENSE WILL BE RETROACTIVELY CLASSIFIED AS CRIMES IN THE FIRST HALF OF 2024 AND INCLUDED IN THE COUNT. REPORTS CONCERN REGISTERED CRIMES FOR WHICH A REPORT OF REPORTS HAS BEEN DRAWN UP. MULTIPLE REPORTS MAY BE FILED PER CRIME. INTERNET REPORTING CAN ONLY BE MADE FOR A SELECTED NUMBER OF OFFENSES AND ONLY IF THERE IS NO INVESTIGATION INDICATION.

TOOLS



DEVELOPED PYTHON CODE FOR CLEANING AND PREPARING DATA FOR ANALYSIS - INCLUDING HANDLING MISSING VALUES, FORMATTING, NORMALIZING, AND MERGING DATA
TRANSLATE ALL VALUES TO ENGLISH

MANAGING AND ANALYZING STRUCTURED DATA FROM PYTHON, MAKING NEW TABLES WITH REQUIRED INFORMATION TO COME UP WITH CONCLUSIONS.

ANALYSING DATA WITH A USER FRIENDLY APPROACH IN MIND. LARGE DATA CAN BE SEEN IN DIFFERENT LIGHT BY USING DIFFERENT EDA TECHNIQUES.

CREATED DEMO WEBSITE

OPEN DATA WEBSITE FROM DUTCH POLICE

WITH COLLECTED DATA I WAS ABLE TO FILTER DATA :

- PER EACH YEAR (2013=2023)
- PER EACH MUNICIPALITY IN THE NETHERLANDS
- PER EACH REGISTERED CRIME TYPE

58

COLLECTED DATASETS

10

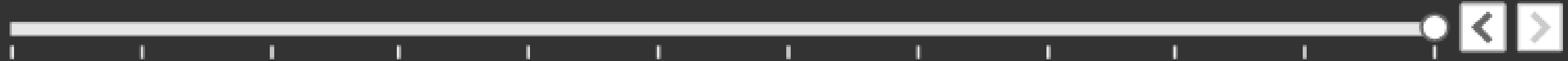
YEARS OF INFORMATIONS

64

TRANSLATIONS OF DATA TO ENGLISH

Year

2023

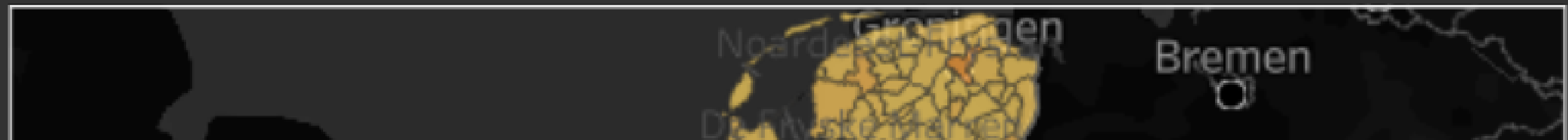


Crime Type

Sexual offence



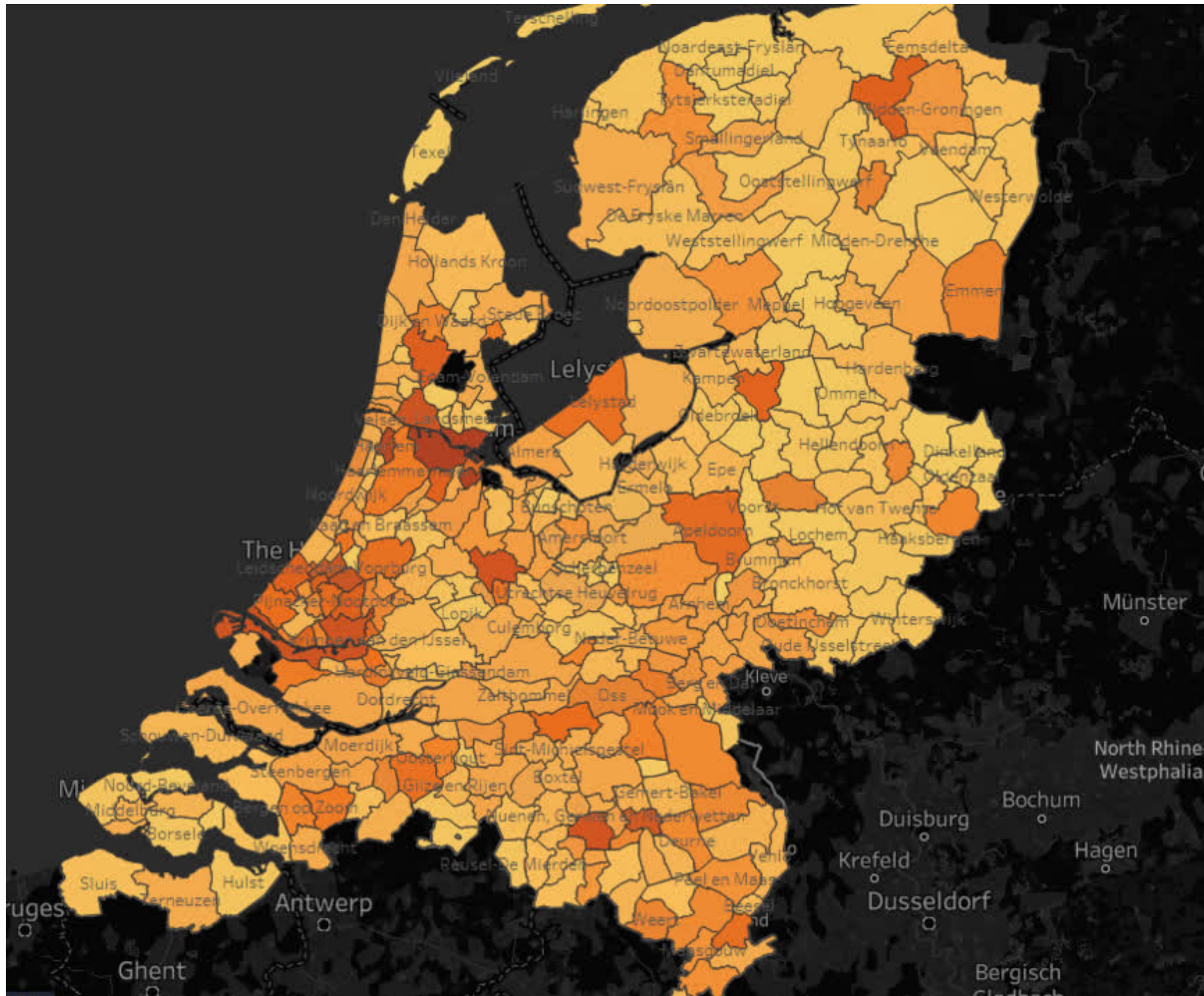
Crime Rates in The Netherlands



TOP CRIMES OF 2023



RESEARCH QUESTION/BUSINESS CASE :



WITH HIGH CRIME RATES AND VARIETY OF ITS TYPE, IT IS STILL COMMON TO HAVE MOPED/BICYCLE THEFTS DAILY ALL OVER THE COUNTRY.

WHILE THE NETHERLANDS STILL HAVE THE HIGHEST RISK OF THESE VEHICLES TO BE STOLEN, THE COST OF ITS IS GOING HIGHER DUE HIGHER NUMBER OF E-BIKES

- **HIGHER AVAILABLE SECURED GARAGES FOR MOPEDS/BICYCLES.**
- **MORE/EASIER MARKING OF BICYCLES FROM POLICE.**
- **AVAILABLE PAID GARAGE-BOXES.**

THANK YOU